



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

September 1, 2011

Joseph A. Kowalewski, Vice President, Operations  
Entergy Operations, Inc.  
Waterford Steam Electric Station, Unit 3  
17265 River Road  
Killona, LA 70057-0751

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
WATERFORD STEAM ELECTRIC STATION, UNIT 3

Dear Mr. Kowalewski:

On August 18, 2011, the NRC completed its mid-cycle performance review of Waterford Steam Electric Station, Unit 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010 through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

Overall, Waterford Steam Electric Station, Unit 3 operated in a manner that preserved public health and safety, and fully met all cornerstone objectives. The NRC determined the performance at Waterford Steam Electric Station, Unit 3 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

Although plant performance was within the Licensee Response Column, the final significance of FIN 05000382/2011009-01, "Failure to use effective engineering controls as part of pre-job planning to reduce contamination and subsequent exposure", is still under review. A preliminary White finding was issued on August 24, 2011. The final significance determination for this finding may affect the NRC's assessment of plant performance and the enclosed inspection plan.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should

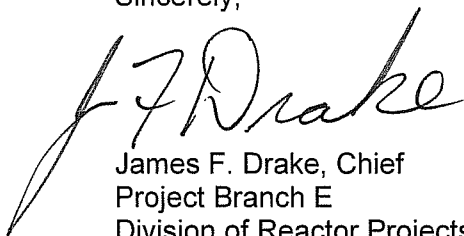
circumstances warrant any changes. Temporary Instruction 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray", will be conducted at your site the week of November 14, 2011.

In the days following the Fukushima Dai-ichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Dai-ichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room

Please contact James Drake at 817-276-6558 with any questions you have regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "J F Drake", is written over the typed name and title.

James F. Drake, Chief  
Project Branch E  
Division of Reactor Projects

Docket No: 50-382  
License No. NPF-38

Enclosure:  
Inspection Plan

Distribution:  
cc w/enclosure:  
Distribution via Listserv for Waterford Steam Electric Station, Unit 3

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## Waterford

## Inspection / Activity Plan

07/01/2011 - 12/31/2012

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
3	04/12/2011	08/10/2011	ALARAURI - ALARA WHITE FINDING IP 71124.02	Occupational ALARA Planning and Controls	2
3	07/18/2011	07/22/2011	BRQ - OPERATOR REQUAL INSPECTION IP 7111111B	Licensed Operator Requalification Program	4
3	09/05/2011	10/07/2011	EB1-21 - COMPONENT DESIGN BASIS INSPECTION IP 7111121	Component Design Bases Inspection	4
3	11/14/2011	11/18/2011	RS678 - RADIATION SAFETY IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	3
3	11/14/2011	11/18/2011	IP 71124.07	Radiological Environmental Monitoring Program	
3	11/14/2011	11/18/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
3	11/14/2011	11/18/2011	TI-177 - TI 2515/177 - GAS ACCUM IN ECCS IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	1
3	12/05/2011	12/09/2011	EP1 - BIENNIAL EP EXERCISE INSPECTION IP 7111401	Exercise Evaluation	2
3	12/05/2011	12/09/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3	12/05/2011	12/09/2011	IP 71151	Performance Indicator Verification	
3	12/12/2011	12/16/2011	EB1-07 - TRIENNIAL HEAT SINK PERFORMANCE IP 7111107T	Heat Sink Performance	1
3	01/30/2012	02/03/2012	EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	4
3	02/13/2012	02/17/2012	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
3	09/03/2012	09/07/2012	EXAM - INITIAL OPERATOR EXAM X02493	INITIAL EXAM WATERFORD 3 (01/01/2012)	4
3	10/01/2012	10/12/2012	X02493	INITIAL EXAM WATERFORD 3 (01/01/2012)	
3	06/04/2012	06/08/2012	RS34 - RADIATION SAFETY IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	2
3	06/04/2012	06/08/2012	IP 71124.04	Occupational Dose Assessment	
3	07/15/2012	07/19/2012	TSB-52B - BIENNIAL PI&R INSPECTION IP 71152B	Problem Identification and Resolution	4
3	07/31/2012	08/04/2012	IP 71152B	Problem Identification and Resolution	
3	10/15/2012	10/19/2012	RS12MCA - RADIATION SAFETY IP 71124.01	Radiological Hazard Assessment and Exposure Controls	2
3	10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	
3	10/15/2012	10/19/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

## Waterford

## Inspection / Activity Plan

07/01/2011 - 12/31/2012

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
3	10/15/2012	10/19/2012	RS12MCA - RADIATION SAFETY		2
			IP 71151-PR01	RETS/ODCM Radiological Effluent	
3	10/22/2012	11/04/2012	PSB2-08P - INSERVICE INSPECTION		3
			IP 7111108P	Inservice Inspection Activities - PWR	
3	11/26/2012	11/30/2012	EP-1 - BIENNIAL EP PROGRAM INSPECTION		1
			IP 7111402	Alert and Notification System Testing	
3	11/26/2012	11/30/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
3	11/26/2012	11/30/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3	11/26/2012	11/30/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
3	11/26/2012	11/30/2012	IP 71151-EP01	Drill/Exercise Performance	
3	11/26/2012	11/30/2012	IP 71151-EP02	ERO Drill Participation	
3	11/26/2012	11/30/2012	IP 71151-EP03	Alert & Notification System	

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